

What Is Claimed Is:

1. A fuel cell system comprising:

a fuel cell in which fuel gas and oxidant gas are supplied

5 to generate power;

an evaporator which evaporates raw fuel liquid by a
combustion heat obtained by combusting exhaust gas exhausted
from said fuel cell to provide raw fuel gas; and

10 a reformer which reforms the raw fuel gas supplied from said
evaporator to provide said fuel gas;

said fuel cell system further comprising:

an air introduction member which introduces air for use in
the reforming reaction in said reformer; and

15 the air introduced from said air introduction member being
supplied from said evaporator to said reformer.

2. The fuel cell system according to Claim 1, where said
air introduction member introduces the air at the time of
starting said fuel cell system.

20 3. The fuel cell system according to Claim 2, wherein
said second air introduction member is configured so as to
introduce the air into the evaporator in an amount larger than
that of said air introduction member.

25 4. The fuel cell system according to Claim 1, wherein

before the raw fuel gas is introduced into the evaporator and after the air introduction from the air introduction member is started, the raw fuel liquid is supplied to the evaporator when at least one of a signal for the evaporator temperature based
5 on the temperature of the evaporator and a signal for the temperature of the reforming catalyst based on the temperature of the reforming catalyst exceeds a prescribed level.

5. The fuel cell system according to Claim 2, wherein
10 before the raw fuel gas is introduced into the evaporator and after the air introduction from the second air introduction member is started,
air introduction from the second air introduction member is stopped when at least one of a signal for the evaporator
15 temperature based on the temperature of the evaporator and a signal for the temperature of the reforming catalyst based on the temperature of the reforming catalyst exceeds a prescribed level, and the raw fuel liquid is supplied to the evaporator.

20 6. The fuel cell system according to Claim 3, wherein before the raw fuel gas is introduced into the evaporator and after the air introduction from the second air introduction member is started,
air introduction from the second air introduction member is
25 stopped when at least one of a signal for the evaporator temperature based on the temperature of the evaporator and a

signal for the temperature of the reforming catalyst based on the temperature of the reforming catalyst exceeds a prescribed level, and the raw fuel liquid is supplied to the evaporator.

5 7. A fuel cell system comprising:

 a fuel cell in which fuel gas and oxidant gas are supplied to generate power;

 an evaporator which evaporates raw fuel liquid by a combustion heat obtained by combusting exhaust gas exhausted
10 from said fuel cell to provide raw fuel gas; and

 a reformer which reforms the raw fuel gas supplied from said evaporator to provide said fuel gas;

 said fuel cell system having a configuration that at the time of starting said fuel cell system, air is introduced into
15 said evaporator in an amount larger than that at the time of the normal operation, and the larger amount of the air and the raw fuel liquid are admixed with each other in said evaporator, after which the air having been utilized for warming up said evaporator is transferred to said reformer.

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 8. The fuel cell system according to Claim 1, wherein said air introduction member comprises an air introduction port.

 9. The fuel cell system according to Claim 2, wherein
25 said air introduction member comprises an air introduction port and said second air introduction member comprises an air

introduction port.

10. The fuel cell system according to Claim 9, wherein the diameter of said air introduction port is smaller than that of
- 5 said second air introduction port.